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1 Process migration



Dejan S. Milojičić, Fred Douglis, Yves Paindaveine, Richard Wheeler, Songnian Zhou September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Publisher: ACM Press

Full text available: pdf(1.24 MB)

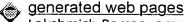
Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

Versioning and fragmentation: Automatic detection of fragments in dynamically





Lakshmish Ramaswamy, Arun Iyengar, Ling Liu, Fred Douglis

May 2004 Proceedings of the 13th international conference on World Wide Web WWW '04

Publisher: ACM Press

Full text available: pdf(268.12 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

Dividing web pages into fragments has been shown to provide significant benefits for both content generation and caching. In order for a web site to use fragment-based content generation, however, good methods are needed for dividing web pages into fragments. Manual fragmentation of web pages is expensive, error prone, and unscalable. This paper proposes a novel scheme to automatically detect and flag fragments that are cost-effective cache units in web sites serving dynamic content. We consider ...

Keywords: L-P fragments, dynamic content caching, fragment detection, fragment-based caching, shared fragments



Poster papers - short papers: Techniques for efficient fragment detection in web pages



Lakshmish Ramaswamy, Arun Iyengar, Ling Liu, Fred Douglis

November 2003 Proceedings of the twelfth international conference on Information and knowledge management CIKM '03

Publisher: ACM Press

Full text available: Ppdf(145.81 KB) Additional Information: full citation, abstract, references, index terms

The existing approaches to fragment-based publishing, delivery and caching of web pages assume that the web pages are manually fragmented at their respective web sites. However manual fragmentation of web pages is expensive, error prone, and not scalable. This paper proposes a novel scheme to automatically detect and flag possible fragments in a web site. Our approach is based on an analysis of the web pages dynamically generated at given web sites with respect to their information sharing behav ...

Keywords: fragment caching, fragment detection, fragment-based publishing

Beating the I/O bottleneck: a case for log-structured file systems



John Ousterhout, Fred Douglis

January 1989 ACM SIGOPS Operating Systems Review, Volume 23 Issue 1

Publisher: ACM Press

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, citings, index terms

CPU speeds are improving at a dramatic rate, while disk speeds are not. This technology shift suggests that many engineering and office applications may become so I/O-limited that they cannot benefit from further CPU improvements. This paper discusses several techniques for improving I/O performance, including caches, battery-backed-up caches, and cache logging. We then examine in particular detail an approach called log-structured file systems, where the file system's only representation ...

Networks applications: ACDN: a content delivery network for applications



Pradnya Karbhari, Michael Rabinovich, Zhen Xiao, Fred Douglis

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02

Publisher: ACM Press

Full text available: pdf(124.14 KB) Additional Information: full citation, citings, index terms

Session: On the role of compression in distributed systems



Fred Douglis

September 1992 Proceedings of the 5th workshop on ACM SIGOPS European workshop: Models and paradigms for distributed systems structuring **EW 5**

Publisher: ACM Press

Full text available: pdf(596.67 KB) Additional Information: full citation, abstract, references

Compression has been used in numerous ways for many years, but recently two factors have combined in a way to push compression to the forefront of distributed systems. First, the disparity between processor speeds and I/O rates is ever-increasing, making it possible to perform compression in software to a much greater extent than was previously feasible. Second, the growth of new applications demanding enormous data rates, such as digital video and audio, makes hardware compression increasingly ...

Web proxy caching: the devil is in the details Ramón Cáceres, Fred Douglis, Anja Feldmann, Gideon Glass, Michael Rabinovich





December 1998 ACM SIGMETRICS Performance Evaluation Review, Volume 26 Issue 3

Publisher: ACM Press

Full text available: pdf(539.43 KB) Additional Information: full citation, abstract, citings, index terms

Much work in the analysis of proxy caching has focused on high-level metrics such as hit rates, and has approximated actual reference patterns by ignoring exceptional cases such as connection aborts. Several of these low-level details have a strong impact on performance, particularly in heterogeneous bandwidth environments such as modem pools connected to faster networks. Trace-driven simulation of the modem pool of a large ISP suggests that "cookies" dramatically affect the cachability of resou ...

8 Errata for "Potential benefits of delta encoding and data compression for HTTP"



Jeffrey C. Mogul, Fred Douglis, Anja Feldmann, Balachander Krishnamurthy
January 1998 ACM SIGCOMM Computer Communication Review, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(404.16 KB) Additional Information: full citation, abstract, index terms

The quantitative results presented in our SIGCOMM '97 paper [1] include numerous minor errors. These errors were caused by programming bugs that led to faulty analyses and simulations, and by inaccurate transcriptions during the preparation of the paper. Here we present corrected figures and tables, as well as corrections to values that appeared in the text of the original paper. The effect of correcting the errors is to reduce the differences between the results based on the proxy trace and tho ...

9 Potential benefits of delta encoding and data compression for HTTP



Jeffrey C. Mogul, Fred Douglis, Anja Feldmann, Balachander Krishnamurthy
October 1997 ACM SIGCOMM Computer Communication Review, Proceedings of the
ACM SIGCOMM '97 conference on Applications, technologies,
architectures, and protocols for computer communication SIGCOMM

'97, Volume 27 Issue 4

Publisher: ACM Press

Full text available: pdf(2.00 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

Caching in the World Wide Web currently follows a naive model, which assumes that resources are referenced many times between changes. The model also provides no way to update a cache entry if a resource does change, except by transferring the resource's entire new value. Several previous papers have proposed updating cache entries by transferring only the differences, or "delta," between the cached entry and the current value. In this paper, we make use of dynamic traces of the full contents of ...

10 On the role of compression in distributed systems



Fred Douglis

April 1993 ACM SIGOPS Operating Systems Review, Volume 27 Issue 2

Publisher: ACM Press

Full text available: pdf(924.02 KB) Additional Information: full citation, abstract, citings, index terms

Compression has been used in numerous ways for many years, but recently two factors have combined in a way to push compression to the forefront of distributed systems. First, the disparity between processor speeds and I/O rates is ever-increasing, making it possible to perform compression in software to a much greater extent than was previously feasible. Second, the growth of new applications demanding enormous data rates, such as digital video and audio, makes hardware compression increasingly ...

11 <u>Self-organizing systems: Multi-site cooperative data stream analysis</u> Fred Douglis, Michael Branson, Kirsten Hildrum, Bin Rong, Fan Ye July 2006 **ACM SIGOPS Operating Systems Review**, Volume 40 Issue 3





Publisher: ACM Press

Full text available: pdf(1.32 MB) Additional Information: full citation, abstract, references, index terms

System S is a large-scale distributed streaming data analysis environment. Ultimately, we envision that there will be multiple sites running the System S software, each with their own administration and goals. However, cooperation between these sites can frequently be of mutual benefit. We are designing the framework to support numerous sites that can work both independently and in cooperative fashions, with a variety of interaction models such as peer-to-peer or federated. Depending on the degr ...

12 Storage systems: Position: short object lifetimes require a delete-optimized storage



system system

Fred Douglis, John Palmer, Elizabeth S. Richards, David Tao, William H. Tetzlaff, John M. Tracey, Jian Yin

September 2004 Proceedings of the 11th workshop on ACM SIGOPS European workshop: beyond the PC EW11

Publisher: ACM Press

Full text available: pdf(146.32 KB) Additional Information: full citation, abstract, references, citings

Early file systems were designed with the expectation that data would typically be read from disk many times before being deleted; on-disk structures were therefore optimized for reading. As main memory sizes increased, more read requests could be satisfied from data cached in memory, motivating file system designs that optimize write performance. Here, we describe how one might build a storage system that optimizes not only reading and writing, but creation and deletion as well. Efficiency is a ...

13 Special interest tracks and posters of the 14th international conference on World



Wide Web

Allan Ellis, Tatsuya Hagino, Fred Douglis, Prabhakar Raghavan May 2005 proceeding

Publisher: ACM Press

Additional Information: full citation, abstract

On behalf of the program committee, welcome to the Industrial and Practical Experience track of WWW2005, the 14th International World Wide Web Conference. We received many excellent papers as submissions and it is unfortunate that our schedule constraints did not allow us to accept all of them. The number of submissions was forty one, from which we accepted eight. All submissions were submitted to three referees, all received at least two reviews and most received three. In addition to the eight ...

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